RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/530,512A_

Source: _1Fuoo_

Date Processed by STIC: _4/11/06_

ENTERED

RAW SEQUENCE LISTING   DATE: 04/11/2006
PATENT APPLICATION: US/10/530,512A   TIME: 11:07:21

Input Set : A:\Sequence Listing.ST25.txt
Output Set: N:\CRF4\04112006\J530512A.raw

```
 3 <110> APPLICANT: Keller, Charles
 4        Ballard, Linda
 5        Lemons, Richard
 6        Ali-Osman, Francis
 8 <120> TITLE OF INVENTION: HIGH THROUGHPUT DETECTION OF GLUTATHIONE S-TRANSFERASE
 9        POLYMORPHIC ALLELES
11 <130> FILE REFERENCE: 1321.2.83/U-2962
13 <140> CURRENT APPLICATION NUMBER: US/10/530,512A
14 <141> CURRENT FILING DATE: 2005-04-06
16 <150> PRIOR APPLICATION NUMBER: 60/418876
17 <151> PRIOR FILING DATE: 2002-10-15
19 <160> NUMBER OF SEQ ID NOS: 47
21 <170> SOFTWARE: PatentIn version 3.2
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 31
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial
28 <220> FEATURE:
29 <223> OTHER INFORMATION: M1F GSTM1 Forward primer
31 <400> SEQUENCE: 1
32 gtttcttctg cttcacgtgt tatgaaggtt c                              31
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 23
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: M1F GSTM1 Forward primer without non-specific sequence tail
added
42        to promote completion of non-templated nucleotide addition.
44 <400> SEQUENCE: 2
45 tgcttcacgt gttatgaagg ttc                                       23
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 20
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: M1R-A GSTM1 Reverse Primer
56 <400> SEQUENCE: 3
57 ttgggaaggc gtccaagcac                                           20
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 23
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
```

RAW SEQUENCE LISTING   DATE: 04/11/2006
PATENT APPLICATION: US/10/530,512A   TIME: 11:07:21

Input Set : **A:\Sequence Listing.ST25.txt**
Output Set: **N:\CRF4\04112006\J530512A.raw**

```
 66 <223> OTHER INFORMATION: M1R-B GSTM1 Reverse primer.
 68 <400> SEQUENCE: 4
 69 tctttgggaa ggcgtccaag cag                                    23
 72 <210> SEQ ID NO: 5
 73 <211> LENGTH: 20
 74 <212> TYPE: DNA
 75 <213> ORGANISM: Artificial Sequence
 77 <220> FEATURE:
 78 <223> OTHER INFORMATION: M1R-B GSTM1 Reverse primer without non-specific sequence tail
 79       added to promote completion of non-templated nucleotide addition.
 81 <400> SEQUENCE: 5
 82 ttgggaaggc gtccaagcag                                        20
 85 <210> SEQ ID NO: 6
 86 <211> LENGTH: 19
 87 <212> TYPE: DNA
 88 <213> ORGANISM: Artificial Sequence
 90 <220> FEATURE:
 91 <223> OTHER INFORMATION: ACTB-A Beta-Actin Forward primer.
 93 <400> SEQUENCE: 6
 94 cctccctgga gaagagtac                                         19
 97 <210> SEQ ID NO: 7
 98 <211> LENGTH: 26
 99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: ACTB-B Beta-Actin Reverse primer.
105 <400> SEQUENCE: 7
106 gtttctgtgt tggcgtacag gtcttt                                 26
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 20
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: ACTB-B Beta-Actin Reverse primer without non-specific
sequence
116       tail added to promote completion of non-templated nucleotide
117       addition.
119 <400> SEQUENCE: 8
120 gtgttggcgt acaggtcttt                                        20
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 26
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: M3F GSTM3 Forward primer.
131 <400> SEQUENCE: 9
132 gtttctcctc agtacttgga agagct                                 26
135 <210> SEQ ID NO: 10
136 <211> LENGTH: 20
137 <212> TYPE: DNA
```

RAW SEQUENCE LISTING   DATE: 04/11/2006
PATENT APPLICATION: US/10/530,512A   TIME: 11:07:21

Input Set : A:\Sequence Listing.ST25.txt
Output Set: N:\CRF4\04112006\J530512A.raw

```
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: M3F GSTM3 Forward primer without non-specific sequence tail
added
142        to promote completion of non-templated nucleotide addition.
144 <400> SEQUENCE: 10
145 cctcagtact tggaagagct                                              20
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 26
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: M3R GSTM3 Reverse primer.
156 <400> SEQUENCE: 11
157 gtttctcaca tgaaagcctt caggtt                                        26
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 20
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: M3R GSTM3 Reverse primer without non-specific sequence tail
added
167        to promote completion of non-templated nucleotide addition.
169 <400> SEQUENCE: 12
170 cacatgaaag ccttcaggtt                                              20
173 <210> SEQ ID NO: 13
174 <211> LENGTH: 25
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: P1-104FA GSTP1 Forward primer.
181 <400> SEQUENCE: 13
182 gtttctgacc tccgctgcaa ataca                                        25
185 <210> SEQ ID NO: 14
186 <211> LENGTH: 19
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: P1-104FA GSTP1 Forward primer without non-specific sequence
tail
192        added to promote completion of non-templated nucleotide addition.
194 <400> SEQUENCE: 14
195 gacctccgct gcaaataca                                               19
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 28
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: P1-104FG GSTP1 Forward primer..
206 <400> SEQUENCE: 15
207 gtttctcttg acctccgctg caaatacg                                     28
210 <210> SEQ ID NO: 16
```

RAW SEQUENCE LISTING   DATE: 04/11/2006
PATENT APPLICATION: US/10/530,512A   TIME: 11:07:21

Input Set : **A:\Sequence Listing.ST25.txt**
Output Set: **N:\CRF4\04112006\J530512A.raw**

```
211 <211> LENGTH: 19
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: P1-104FG GSTP1 Forward primer without non-specific sequence
tail
217       added to promote completion of non-templated nucleotide addition.
219 <400> SEQUENCE: 16
220 gacctccgct gcaaatacg                                                19
223 <210> SEQ ID NO: 17
224 <211> LENGTH: 23
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: P1-104R GSTP1 Reverse primer.
231 <400> SEQUENCE: 17
232 gtttctcagc ccaagccacc tga                                           23
235 <210> SEQ ID NO: 18
236 <211> LENGTH: 18
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: P1-104R GSTP1 Reverse primer without non-specific sequence
tail
242       added to promote completion of non-templated nucleotide addition.
244 <400> SEQUENCE: 18
245 tcagcccaag ccacctga                                                 18
248 <210> SEQ ID NO: 19
249 <211> LENGTH: 27
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: P1-113FT GSTP1 Forward primer.
256 <400> SEQUENCE: 19
257 gtttctcttt ggtgtctggc aggaggt                                       27
260 <210> SEQ ID NO: 20
261 <211> LENGTH: 17
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: P1-113FT GSTP1 Forward primer without non-specific sequence
tail
267       added to promote completion of non-templated nucleotide addition.
269 <400> SEQUENCE: 20
270 ggtgtctggc aggaggt                                                  17
273 <210> SEQ ID NO: 21
274 <211> LENGTH: 23
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: P1-113FC GSTP1 Forward primer.
281 <400> SEQUENCE: 21
```

```
282 gtttctggtg tctggcagga ggc                                    23
285 <210> SEQ ID NO: 22
286 <211> LENGTH: 17
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: P1-113FC GSTP1 Forward primer without non-specific sequence
tail
292         added to promote completion of non-templated nucleotide addition.
294 <400> SEQUENCE: 22
295 ggtgtctggc aggaggc                                           17
298 <210> SEQ ID NO: 23
299 <211> LENGTH: 19
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: P1-113R GSTP1 Reverse primer.
306 <400> SEQUENCE: 23
307 tggtctccca caatgaagg                                         19
310 <210> SEQ ID NO: 24
311 <211> LENGTH: 23
312 <212> TYPE: DNA
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: T1F GSTT1 Forward primer.
318 <400> SEQUENCE: 24
319 ttccttactg gtcctcacat ctc                                    23
322 <210> SEQ ID NO: 25
323 <211> LENGTH: 27
324 <212> TYPE: DNA
325 <213> ORGANISM: Artificial Sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: T1R GSTT1 Reverse primer.
330 <400> SEQUENCE: 25
331 gtttctacag actggggatg gatggtt                                27
334 <210> SEQ ID NO: 26
335 <211> LENGTH: 22
336 <212> TYPE: DNA
337 <213> ORGANISM: Artificial Sequence
339 <220> FEATURE:
340 <223> OTHER INFORMATION: T1R GSTT1 Reverse primer without non-specific sequence tail
added
341         to promote completion of non-templated nucleotide addition.
343 <400> SEQUENCE: 26
344 tacagactgg ggatggatgg tt                                     22
347 <210> SEQ ID NO: 27
348 <211> LENGTH: 26
349 <212> TYPE: DNA
350 <213> ORGANISM: Artificial Sequence
352 <220> FEATURE:
353 <223> OTHER INFORMATION: M2F10 forward primer.
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/11/2006
PATENT APPLICATION: **US/10/530,512A**   TIME: 11:07:22

Input Set : **A:\Sequence Listing.ST25.txt**
Output Set: **N:\CRF4\04112006\J530512A.raw**

<u>**Invalid <213> Response:**</u>
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1

VERIFICATION SUMMARY   DATE: 04/11/2006
PATENT APPLICATION: **US/10/530,512A**   TIME: 11:07:22

Input Set : **A:\Sequence Listing.ST25.txt**
Output Set: **N:\CRF4\04112006\J530512A.raw**